

## Utah Weekly Pertussis Update

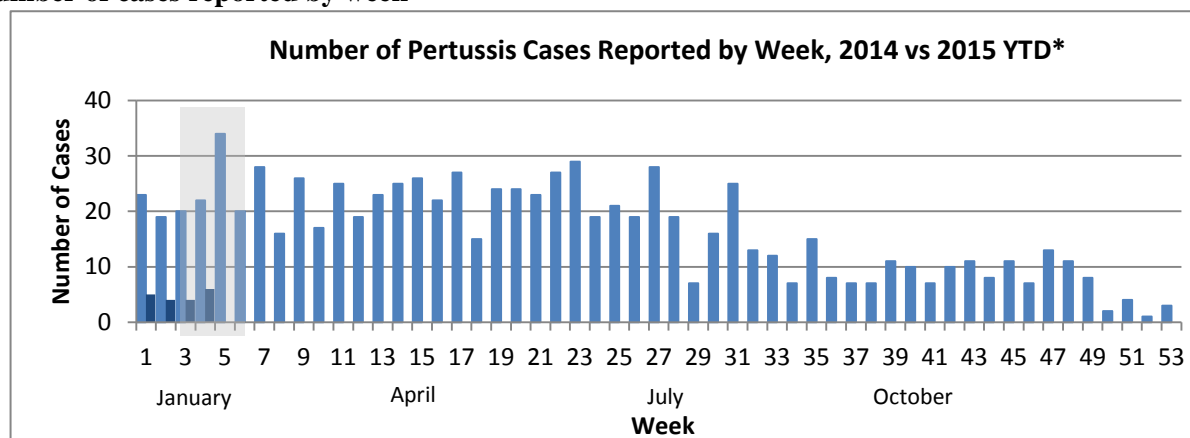
2014 data, through MMWR week ending February 7, 2015 (MMWR week 05)

*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2015 year-to-date (YTD)	19	Utah Incidence rate, 2015 year-to-date (YTD) per 100,000 person-years
Total number of cases reported 2014	874	Utah Incidence rate, 2014 per 100,000 person-years
Number of cases reported in past week	13	National Incidence rate, 2013 per 100,000 person-years (As of 11/12/2014) *Provisional
Total number of cases reported, through same time period 2014	118	2015 Hospitalizations
Age groups with the highest rates	5-14 year	2015 Cases in infants <1 year

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2015 Year-to-Date Incidence Rates, By Age

Age (years)	2015 Cases	2013 population	Rate*, **
<1	0	50,052	0.0
1-4	3	203,815	14.1
5-14	8	505,598	15.2
15-24	2	469,436	4.1
25-34	3	440,736	6.5
35-44	2	372,699	5.2
45-54	0	305,312	0.0
55-64	1	269,589	3.6
65+	0	283,635	0.0
Total	19	2,900,872	6.3

\* Rate is calculated per 100,000 person years

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

\*\*2013 population estimate update as of 11/4/2014 rates may vary compared to previous reports.

### School Age Incidence Rates, 2015 Year-to-Date

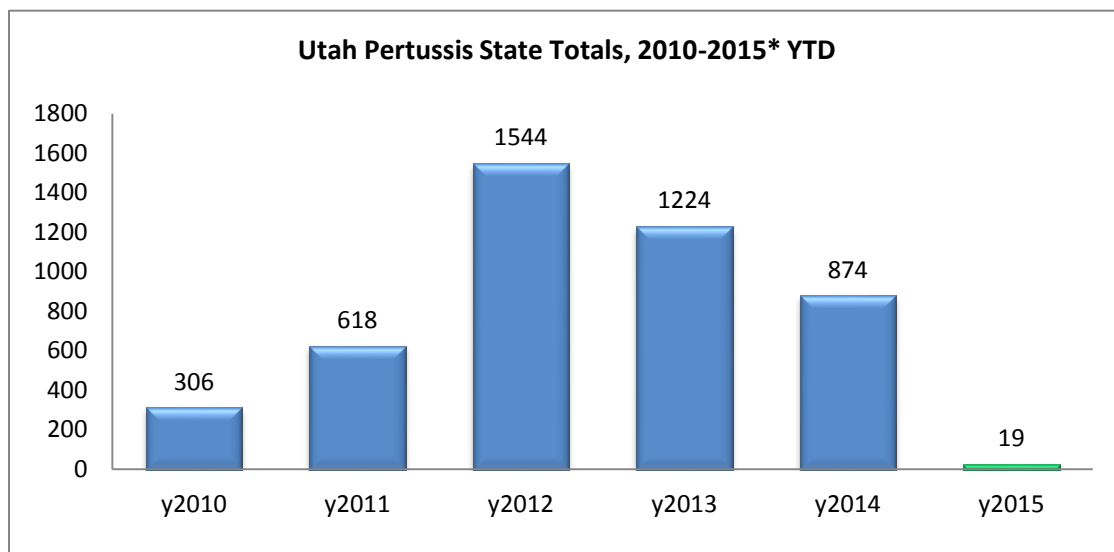
Grade	Age (years)	2015 Cases	2013 Population	Rate*
Preschool	3-4	8	103,602	74.2
Kindergarten	5	1	53,177	18.1
1	6	1	52,869	18.2
2	7	2	52,063	36.9
3	8	0	51,809	0.0
4	9	1	51,080	18.8
5	10	1	50,567	19.0
6	11	2	48,961	39.2
7	12	0	49,008	0.0
8	13	0	48,884	0.0
9	14	0	47,180	0.0
10	15	0	46,321	0.0
11	16	1	45,914	20.9
12	17	1	44,889	21.4

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2008-2014



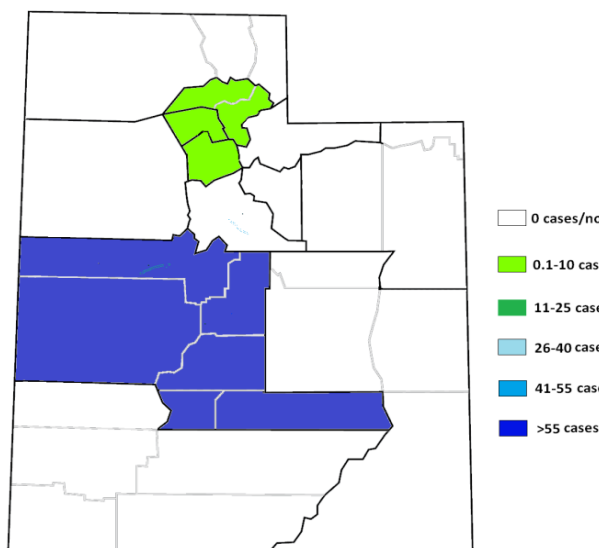
Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

\* 2015 data includes pertussis cases reported year to date. 2010-2014 data reflects cases reported during the entire calendar year for each year.

## Incidence of pertussis by Local Health Department, 2015 YTD

Local Health Department	2015 Cases	Rate*
Bear River	0	0.0
Central Utah	7	88.1
Davis County	2	6.0
Salt Lake Valley	7	6.2
Southeastern Utah	0	0.0
Southwest Utah	0	0.0
Summit County	0	0.0
Tooele County	0	0.0
TriCounty	0	0.0
Utah County	0	0.0
Wasatch County	0	0.0
Weber-Morgan	2	7.7

\* Rate is calculated per 100,000 person-years using 2013 Utah population estimates



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